

Martin M6™

Safety and Installation Guide


Martin

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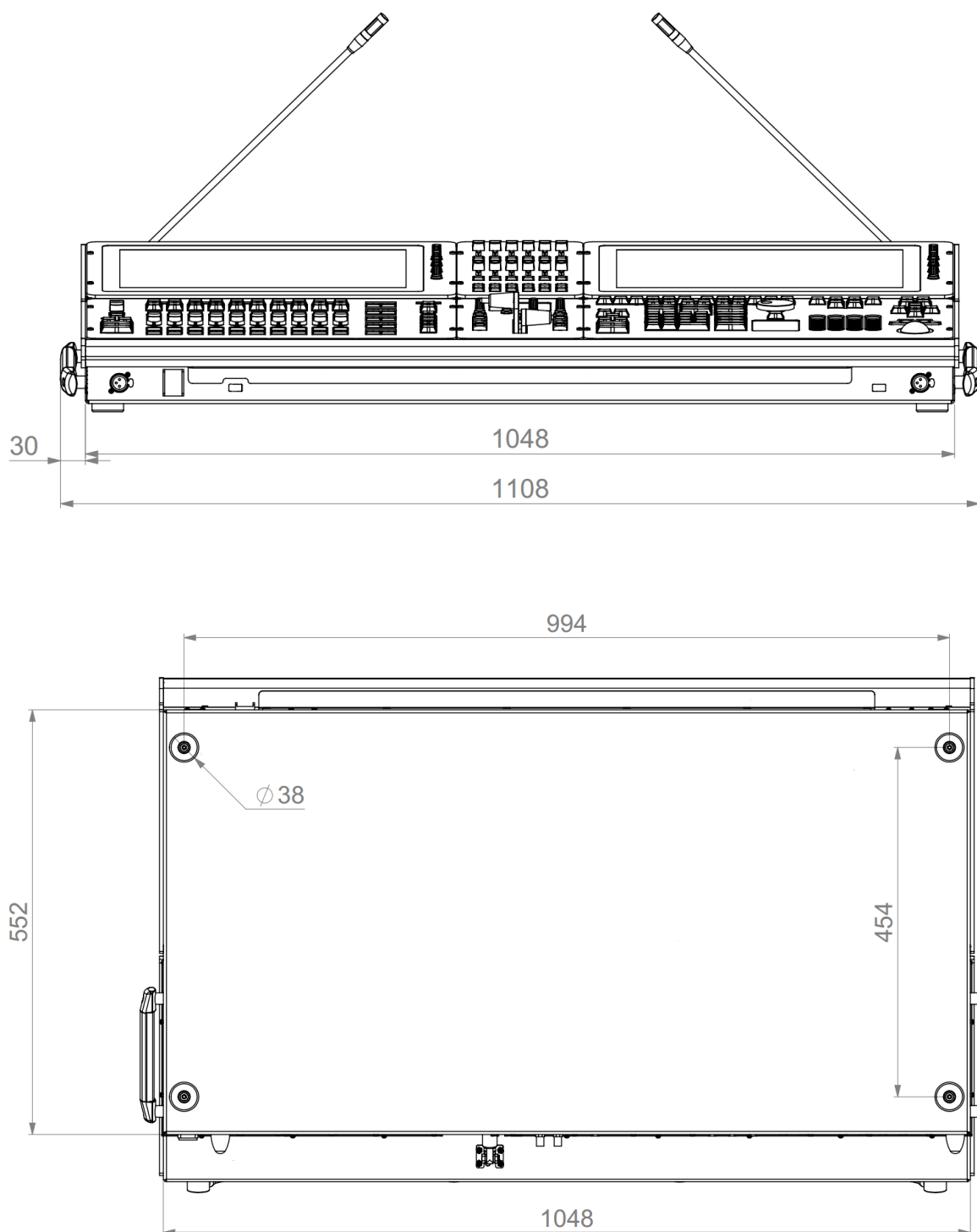
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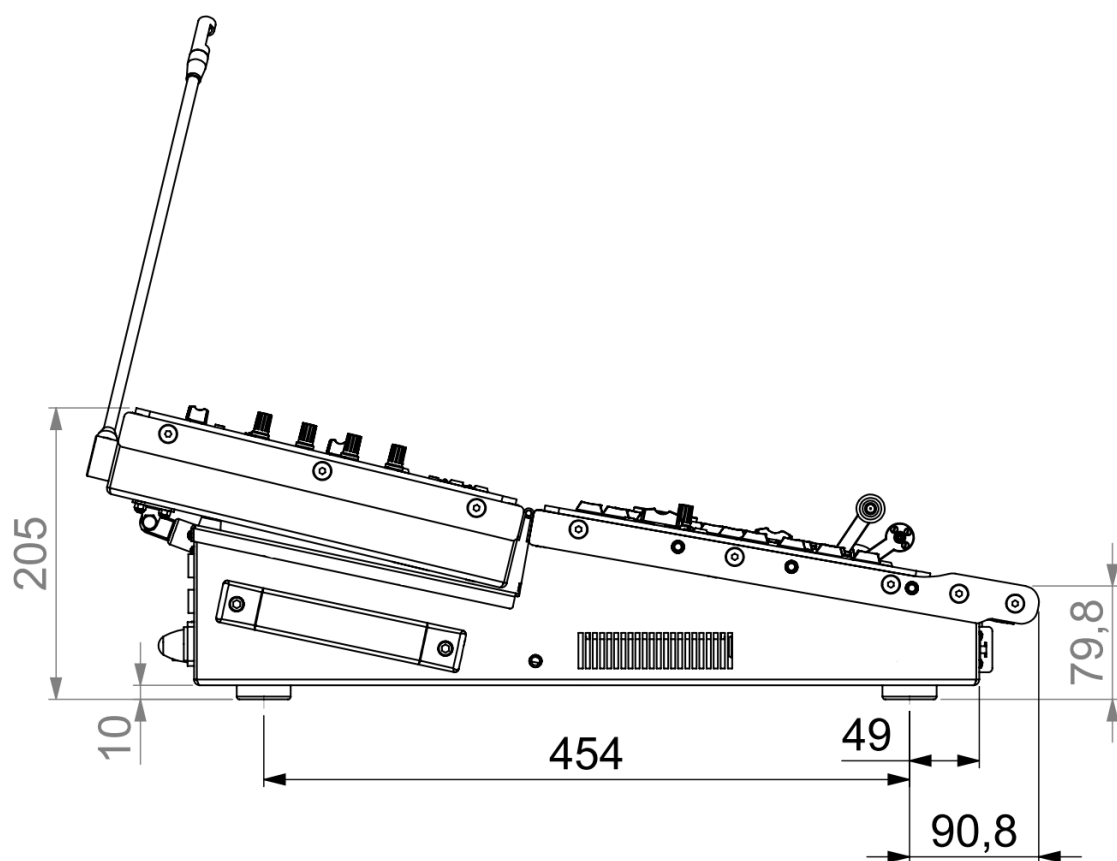
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Dimensions

All dimensions are in millimeters





Introduction

Thank you for purchasing the Martin M6™ Lighting Control System.

The system offers a powerful lighting controller with all the features of the Martin M-Series™ with enhanced user interfaces, hardware controls and processing power.

Please read this "Safety and Installation Guide" carefully. Visit the Martin™ website www.martin.com for further documentation including the software user manual and access to our online community.

Technical Support

Martin™ operates a complete network of support services around the world. Experts in programming and operating Martin™ control systems can be found in every timezone and every continent.

Contact by email

The best way to get questions answered or to report a problem is to email us @ controllersupport@martin.dk

Contact by phone

For emergencies call the dedicated 24h controller support hotline **+45 8740 0015**

Fixture Type Requests

The Martin M-Series™ contains an extensive fixture library. However, new fixtures are introduced to the market at a rapid pace and a specific fixture may not be available in the fixture library yet.

Fixture requests can be made on the support page www.martin.com/controllersupport.

A fixture may already have been created and included in the library update package. An index of all fixture types can be found on the support page and it is recommended to check it before filling out the request form.

Once a fixture update is received follow the instructions on the support page how to install it on the system.

Controller Support website

Up-to-date software, manuals and training documentation is available at www.martin.com/controllersupport

User Forums

The Martin™ controller user forums are a helpful resource to communicate with other users around the world. Many questions may already be answered in the forums and it is a great way to interact with other programmers and users.

www.martin.com

Safety Information

This product is for professional use only. It is not for household use. It presents risks of lethal or severe injury due to electric shock. Read this user manual before powering or installing the console, follow the safety precautions listed below and observe all warnings in this manual and printed on the product.

If you have questions about how to operate the product safely, please contact your Martin™ supplier or call the Martin™ 24-hour service hotline on +45 8740 0000.

This product is for indoor use ONLY.

- Ensure that the power supply is electrically grounded (earthed) . Do not use ground lift adapters.
In Finland: "Laite on liitettava suojamaadoituskoskettimilla varustettuun pistorasiaan"
In Norway: "Apparatet må tilkoples jordet stikkontakt"
In Sweden: "Apparaten skall anslutas till jordat uttag"
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.
- Power input and cables must be rated 20 A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm (0.2 - 0.6 in.). Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90° (194° F) minimum. In the EU the cable must be HAR approved or equivalent.
- Use only Neutrik PowerCon NAC3FCA cable connectors to connect to power input sockets.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other component is damaged, defective, deformed, wet or showing signs of overheating. Do not reapply power until repairs have been completed.
- Do not expose the product to rain or moisture.
- Allow free unobstructed airflow around the product. Do not block the ventilation slots.
- Operate the console only on a stable and solid surface.
- Do not use the product if the ambient temperature exceeds 40°C (104° F)
- Refer any service operation not described in this manual to a qualified technician.
- Do not modify the product or install other than genuine Martin parts.
- Transport the product only in a custom fitted road case. Transportation damage is not covered under warranty.
- Protect the integrated touchscreens from sharp objects and operate the screens using a finger only.
- Caution: Risk of fire and electrical Shock. Use only in dry locations.
- Caution: Risk of explosion if CMOS battery is replaced with an incorrect type. Dispose of used batteries according to local environmental regulations
- Caution: Do not expose CMOS battery to excessive heat from sun or fire.

WARNING: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Included Items

Each M6™ console contains the following items:

- M6™ Controller
- Dust Cover
- Road Case
- Operating System Installation Media
- Safety and Installation Manual

Software

The software for the M6™ is available from the support website www.martin.com/controllersupport. Please check periodically for new releases that may add new functionality or improvements.

It is recommended to update to the latest release software before using the M6™ for the first time.

Additional touchscreens

The M6™ supports two additional touchscreens via its Display Port connection.

The M6™ can be operated with the following touchscreen types:

- M-Series™ BriteTouch screen module
- Generic Windows 7 Touch compatible screens that do not require custom drivers
- ELO Touch Systems iTouch, Accutouch and IntelliTouch compatible screens.
- Display Port (active adapters to VGA, DVI and HDMI may be used)
- USB 2.0

Setup and Assembly

Handling

Do not transport the M6™ without the factory-provided flightcase or another professionally designed case solution.

Only transport the flightcase laying flat with the factory label facing up and secure the M6™ safely.

The flightcase must be lifted by two people. Do not lift it alone.

Transport damage is not covered under warranty.

Place the flightcase on a flat, stable surface before opening. Open it carefully to avoid damaging the console.

When lifting the console, support its weight by using the provided handle and holding it under the hand rest support.

The console must be lifted by two people. Do not lift it alone.

The controller needs to be placed onto a stable and flat surface so all four rubber feet are supported evenly.

Do not operate the screen mechanism when the console is not supported properly and never use the screen housing to lift the console.

Power Connections



The Martin M6™ accepts AC mains power at 100-240V 50/60Hz. Do not connect it to power outside this range. Damage resulting from incorrect connection is not covered under warranty.

Only use a Neutrik Powercon NAC3FCA cable connector for power input.

Install only a mains plug that meets local and national electrical codes and is suitable for the country's specific power outlet types. Refer to a certified electrician for any questions regarding a country's specific requirements.

A 3-prong grounding-type (earthed type) plug must be installed following the plug manufacturer's instructions. The table below shows some possible pin identification schemes; if the pins are not clearly identified, or if you have any doubts about proper installation, consult a qualified electrician.

Wire color (standard EU code)	Pin	Symbol
brown	live	L
blue	neutral	N
yellow/green	ground	

1. Check that the power switch is set to the **OFF** position before connecting the cable.
2. Turn on the desk by toggling the power switch on the front to the ON position.

Connections

Front

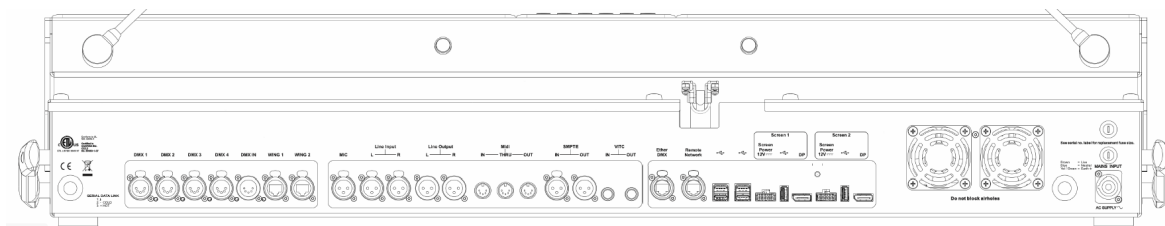
USB 3.0 (blue)

Two USB 3.0 connectors are placed under the handrest. Do not exceed 500ma.
These connections are suitable for Operating System installations.

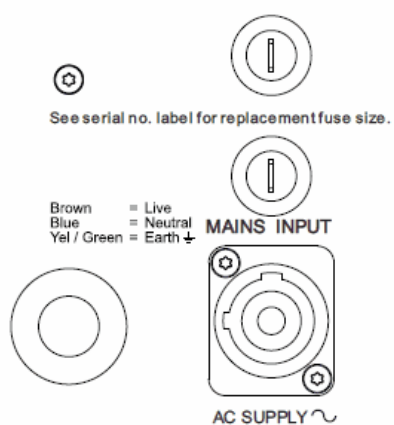
USB 2.0 (black)

A USB 2.0 connector is placed next to each touchscreen surface. Do not exceed 500ma.
These connections are NOT suitable for Operating System installations.

Back panel

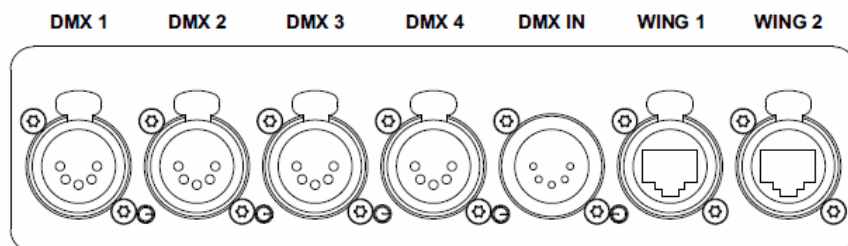


AC MAINS Input



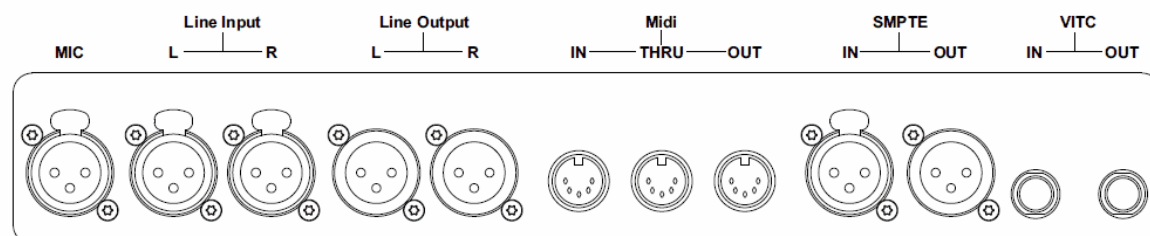
1x Neutrik Powercon NAC3FCA

DMX and Wing



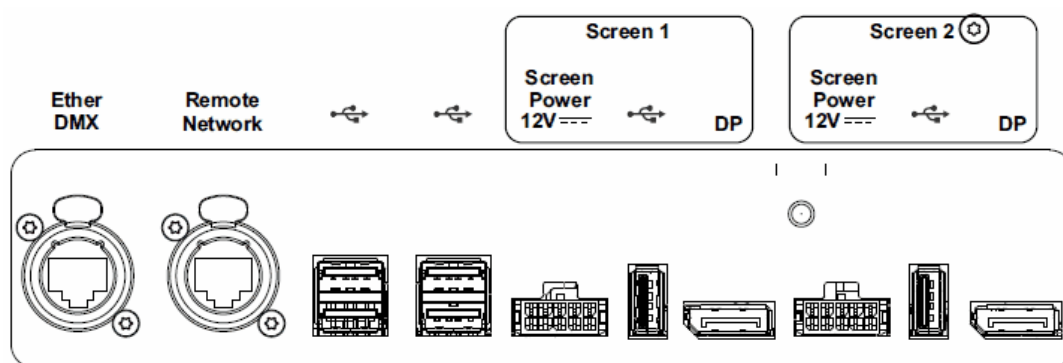
DMX 1-4	XL R 5-pin female DMX Outputs, RDM compatible, bidirectional for DMX Input
Wing 1 + 2	2x RJ45 Ethercon USB for M-Series Modules (max. 500ma.)

Audio, MIDI, Timecode



MIC	XL R 3-pin microphone input
Line Input L+R	XL R 3-pin balanced audio input
Line Output L+R	XL R 3-pin balanced audio output
MIDI In, Out, Thru	5pin DIN MIDI
SMPTE In+Out	XL R 3-pin LTC Timecode
VITC In+Out	BNC Video Interval Timecode

Network, Video, USB



Ether DMX	RJ45 Ethercon Gigabit Network
Remote Network	RJ45 Ethercon Gigabit Network
USB	USB-A 2.0 (max 500ma)
Screen Power	12V Power outlet for Martin M-Series BriteTouch screen only
Display 1+2	DisplayPort Output

Maintenance

The Martin M6™ is designed as a rugged, roadworthy device. Occasional cleaning is the only service required of the user. For any other service-related concerns, please contact your Martin™ dealer or visit www.martin.com.

Any service not described in this document must be carried out by a qualified Martin technician.

The M6™ requires periodic cleaning. The schedule depends heavily on the operating environment; please consult a Martin™ service technician for recommendations if needed.

As with any computer, never spray the cleaner directly onto the desk, always spray onto a lint-free cloth and wipe clean. Cleaning products designed for cellphone and tablet devices tend to work very well for cleaning of a lighting console.



Important! Excessive dust, dirt smoke fluid build-up etc. can degrade performance and cause overheating and damage to the controller that is not covered by the warranty.

Specifications

Control and Programming

- Protocol: DMX512A (RDM), Artnet2
- 4 DMX universes, expandable to 64
- 2048 channels, expandable to 32768
- No limit to number of DMX channels per fixture
- Extensive fixture library for all known manufacturers
- 65000 presets for each group of functions (P/T, color, gobo, etc.)
- Effect generator for automated programming of complex effects
- Customizable highlight and lowlight function to identify individual fixtures
- Relative or absolute programming
- Fan function for all channels (including timing parameters)
- On-the-fly global timing changes
- Virtual cuelists
- Macros
- Wait, follow and link cues
- HTP, LTP, chase, timecode, submaster and group master playback functionality
- Individual parameter timings
- Intuitive patch feature
- Fixture type cloning
- All channels with 16-bit resolution
- Blind/preview button
- Customizable highlight/lowlight function
- Customizable parameter defaults
- Next/last fixtures/groups

Playback

- Assign a cue, cuelist or effect to any playback fader
- 100 playback banks, each containing 10 playbacks
- 100 pages of 100 playbacks activated by touch screen button
- No limit to cues per cuelist
- Full 16-bit fading for high-resolution fixtures
- Individual fade in/fade out times for all playbacks
- Manual override available at all times
- Live 0-1000% override of global cue timings
- Live programmer timing ("Sneak")
- Cuelists can be executed in tracking or non-tracking mode

Physical

Length: 668mm (26.3 in.)
Width: 108mm (41.7 in.)
Height: 204mm (8.0 in.)
Weight: 37.5 kg (82.7 lbs)
Operating Temperature: 0° - 40° C (32° - 104° F)
IP Rating: IP20

Connections

4x DMX universe outputs: 5-pin locking XLR
1x DMX Input: 5-pin locking XLR
2x External touchscreens (both up to 1920x1080): DisplayPort
Artnet (up to 64 Universes): Gigabit Ethercon RJ-45
MaxNe controller link: Gigabit Ethercon RJ-45
Peripherals and USB memory devices: 2x USB 3.0, 8x USB 2.0
SMPTE In/Out 3-pin locking XLR
VITC In/Out: BNC
MIDI In/Out/Thru (MIDI show control, MIDI notes, MIDI timecode) 5-pin DIN
Stereo audio In/Out: 3-pin XLR
Microphone: 3-pin locking XLR
2x Desk lamp (optional accessories) 3-pin locking XLR

Electrical

AC mains power: 100-240 V nominal, 50/60 Hz
Maximum current: 4A at 115V, 2A at 230V

Approvals

EU EMC: EN 55032 Class A,
EU Safety: EN 61000-3-2, EN 61000-3-3
Canadian EMC: ICES-003 acc. ANSI 63.4 Class A, CFR 47 part 15 Class A
US Safety: UL 60950-1
Canada : CAN/CSA C22.2
ETL listed 3045187

Control Surface

2x Industrial BriteTouch™ 15.6" 1376x768 (sunlight readable multi-touch glass)
2x Industrial 3.5" RGB FastTouch™ 320x240
10x Motorized Playback Faders with 4 Buttons (2 Cherry, 2 Digitast) with LCD Displays
10x Paired Playback™ with LCD Displays
12x Sub Playback Faders
12x Sub Playback Buttons
12x Function Keys
5x Fastkeystm
2 Main-GO Sections
Bank Navigation with Digital Display
Split T-Bar Handle
8x RGB Buttons
Numerical Keypad
Command Buttons
Trackball with two selection buttons
13x Rotary Encoders
4x Linear Encoders with LED feedback

Processor Hardware

Industrial motherboard with Intel Core i7 Quad-Core processor
16 GB RAM
64 GB SSD storage drive
Dedicated graphics processor

Software

Windows 7 Embedded
OS installation by USB storage device
Show backup on hard or USB storage device (not included)
Support for ELO USB touchscreens

Included Items

Neutrik PowerCon NAC3FCA power input connector, cable mount: P/N 05342804
2 x integrated LED desk lamps
USB flash recovery drive
Dust cover
Flightcase

Accessories

Martin M-Series™ Top Playback II Module: P/N 91613104
Martin M-Series™ Top Submaster Narrow Module: P/N 91613105
Martin M-Series™ Top Submaster Wide Module: P/N 91613106
Martin M-Series™ Top Transition Module: P/N 91613107
Martin M-Series™ Bottom Module Housing: P/N 91613102
Martin M-Series™ Touchscreen 15.6" Module: P/N 91613108
Short desklight: P/N 91613090
Long desklight: P/N 91613037
Martin M6™ Screen Mounting Kit: P/N 91613109
Martin M6™ Flightcase (Replacement): P/N 91535080

Ordering Information

Martin M6™ Console, 4 DMX Universes, with Flightcase: P/N 90737050
Martin M6™ 8 DMX Universes Package: P/N 39808034
Martin M6™ 16 DMX Universes Package: P/N 39808035
Martin M6™ 32 DMX Universes Package: P/N 39808036
Martin M6™ 64 DMX Universes Package: P/N 39808037



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